Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Nuclear Instruments and Methods in Physics Research A 544 (2005) 693–706
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A
www.elsevier.com/locate/nima

Author index

Abbott, R.P., see Yu, S.S. ... 544 (2005) 294
Abdou, M.A., see Calderoni, P. ... 544 (2005) 111
Abdou, M.A., see Konkachbaev, A.I. ... 544 (2005) 337
Adonin, A., see Tahir, N.A. ... 544 (2005) 16
Aisa, D., E. Babucci, F. Barocchi, A. Cunsolo, F. D'Anca, A. De Francesco, F. Formisano, T. Gahl, E. Guarini, S. Jahn, A. Laloni, H. Mutka, A. Orecchini, C. Petrillo, F. Sacchetti, J.-B. Suck and G. Venturi, The development of the BRISP spectrometer at the Institut Laue-Langevin ... 544 (2005) 620
Aksenov, A.G., M.D. Churazov, A.A. Golubev, D.G. Koshkarev and E.A. Zabrodina, Cylindrical targets for heavy ions fusion ... 544 (2005) 412
Alexander, N.B., see Goodin, D.T. ... 544 (2005) 34
Alianelli, L., see Ciampolini, L. ... 544 (2005) 649
Allen, M., see Geissel, M. ... 544 (2005) 55
Altzitzoglou, T., see Pommé, S. ... 544 (2005) 584
Anders, A., see Roy, P.K. ... 544 (2005) 225
Audebert, P., see Cowan, T.E. ... 544 (2005) 277
Audebert, P., see Geissel, M. ... 544 (2005) 55
Azevedo, T., see Cohen, R.H. ... 544 (2005) 210

Babucci, E., see Aisa, D. ... 544 (2005) 620
Baca, D., see Kwan, J.W. ... 544 (2005) 134
Baca, D., see Seidl, P.A. ... 544 (2005) 486
Bangerter, R.O., see Barnard, J.J. ... 544 (2005) 243
Bangerter, R.O., see Yu, S.S. ... 544 (2005) 294
Barnard, J., see Logan, G. ... 544 (2005) 1
Barnard, J.J., R.O. Bangerter, E. Henestroza, I.D. Kaganovich, B.G. Logan, W.R. Meier, D.V. Rose, P. Santhanam, W.M. Sharp, D.R. Welch and S.S. Yu, A final focus model for heavy-ion fusion driver system codes ... 544 (2005) 243
Barnard, J.J., see Leitner, M.A. ... 544 (2005) 315
Barnard, J.J., see Qin, H. ... 544 (2005) 255
Barnard, J.J., see Sharp, W.M. ... 544 (2005) 398
Barnard, J.J., see Welch, D.R. ... 544 (2005) 236
Barnard, J.J., see Yu, S.S. ... 544 (2005) 294
Barocchi, F., see Aisa, D. ... 544 (2005) 620
Barriga-Carrasco, M.D., see Maynard, G. ... 544 (2005) 84
Barton, I., see Cowan, T.E. ... 544 (2005) 277
Basko, M., see Geissel, M. ... 544 (2005) 55
Basko, M., see Medin, S. ... 544 (2005) 300
Bechtold, A., see Meusel, O. ... 544 (2005) 447
Bée, M., see Ciampolini, L. ... 544 (2005) 649
Benedetti, C., S. Rambaldi and G. Turchetti, Th.P-19. Collisional effects and dynamic aperture in high-intensity storage rings ... 544 (2005) 465
Bennett, G.R., see Callahan, D.A. ... 544 (2005) 9

doi:10.1016/S0168-9002(05)00999-X

Bernal, S., see Cui, Y. . . . 544 (2005) 527
Bernal, S., see Haber, I. . . . 544 (2005) 441
Bernal, S., see Kishek, R.A. . . . 544 (2005) 179
Bernal, S., see Li, H. . . . 544 (2005) 367
Bernal, S., see Walter, M. . . . 544 (2005) 374
Bieniosek, F., see Logan, G. . . . 544 (2005) 1
Bieniosek, F.M., A. Faltens, L. Prost, P.K. Roy, P.A. Seidl, S. Eylon, E. Henestroza, W.L. Waldron and S.S. Yu, Experimental study of space–charge waves in heavy ion beams . . . 544 (2005) 481
Bieniosek, F.M., S. Eylon, A. Faltens, A. Friedman, J.W. Kwan, M.A. Leitner, A.W. Molvik, L. Prost, P.K. Roy, P.A. Seidl and G. Westenskow, Diagnostics for intense heavy-ion beams in the HIF-VNL . . . 544 (2005) 268
Bieniosek, F.M., see Kwan, J.W. . . . 544 (2005) 134
Bieniosek, F.M., see Kwan, J.W. . . . 544 (2005) 430
Bieniosek, F.M., see Molvik, A.W. . . . 544 (2005) 194
Bieniosek, F.M., see Prost, L.R. . . . 544 (2005) 151
Bieniosek, F.M., see Roy, P.K. . . . 544 (2005) 225
Bieniosek, F.M., see Roy, P.K. . . . 544 (2005) 520
Bin-Nun, A., see Kaganovich, I.D. . . . 544 (2005) 91
Blasche, K., see Spiller, P. . . . 544 (2005) 117
Blazevic, A., see Cowan, T.E. . . . 544 (2005) 277
Blažević, A., see Geissel, M. . . . 544 (2005) 55
Block, R.C., see Danon, Y. . . . 544 (2005) 659
Boslau, O., see Kemmer, J. . . . 544 (2005) 612
Bouchigny, S., C. Commeaux, J.-P. Didelez and G. Rouillé, Progress in the polarization of HD . . . 544 (2005) 417
Bove, L.E., see Ciampolini, L. . . . 544 (2005) 649
Brambrink, E., see Cowan, T.E. . . . 544 (2005) 277
Brambrink, E., see Geissel, M. . . . 544 (2005) 55
Bret, A., M.-C. Firpo and C. Deutsch, Transverse beam temperature effects on mixed Two-Stream/Filamentation unstable modes . . . 544 (2005) 427
Briggs, R.J., see Yu, S.S. . . . 544 (2005) 294

Calderoni, P., A. Ying, T. Sketchley and M.A. Abdou, Vapor condensation study for HIF liquid chambers . . 544 (2005) 111
Callahan, D., see Logan, G. . . . 544 (2005) 1
Callahan, D., see Tabak, M. . . . 544 (2005) 48
Callahan, D., see Yu, S.S. . . . 544 (2005) 294
Callahan, D.A., D.S. Clark, A.E. Koniges, M. Tabak, G.R. Bennett, M.E. Cuneo, R.A. Vesey and A. Nikroo, Heavy-ion target physics and design in the USA . . . 544 (2005) 9
Callahan, D.A., see Nikroo, A. . . . 544 (2005) 42
Cao, C., X. Gao, P. Ma, H. Yu, F. Wang, Y. Huang and P. Liu, A fine adjustment mechanism of the second crystal in a double-crystal monochromator with a 3-PS parallel manipulator . . . 544 (2005) 684
Celata, C., see Logan, G. . . . 544 (2005) 1
Celata, C.M., Scientific issues in future induction linac accelerators for heavy-ion fusion . . . 544 (2005) 142
Celata, C.M., see Leitner, M.A. . . . 544 (2005) 315
Celata, C.M., see Prost, L.R. . . . 544 (2005) 151
Celata, C.M., see Sharp, W.M. . . . 544 (2005) 398
Celata, C.M., see Yu, S.S. . . . 544 (2005) 294
Chen, C., see Town, R.P.J. . . . 544 (2005) 61
Chen, C., see Zhou, J. . . . 544 (2005) 492
Chiesa, L., see Sabbi, G. . . . 544 (2005) 285
Chung, M., E.P. Gilson, R.C. Davidson, P.C. Efthimion, R. Majeski and E.A. Startsev, Laser-Induced Fluorescence diagnostic of barium ion plasmas in the Paul Trap Simulator Experiment . . . 544 (2005) 514
Chung, M., see Gilson, E.P. . . . 544 (2005) 171
Churazov, M., see Medin, S. . . . 544 (2005) 300
Churazov, M.D., see Aksenov, A.G. . . . 544 (2005) 412
Ciampolini, L., L.E. Bove, C. Mondelli, L. Alianelli, S. Labbe-Lavigne, F. Natali, M. Bée and A. Deriu, A new gradient monochromator for the IN13 back-scattering spectrometer . . . 544 (2005) 649
Clark, D.S. and M. Tabak, Nonlinear Rayleigh–Taylor growth in converging geometry . . . 544 (2005) 324
Clark, D.S., see Callahan, D.A. . . . 544 (2005) 9

Cobble, J., see Cowan, T.E. 544 (2005) 277
Cobble, J., see Geissel, M. 544 (2005) 55
Cohen, R., see Logan, G. 544 (2005) 1
Cohen, R., see Prost, L.R. 544 (2005) 151
Cohen, R.H., A. Friedman, S.M. Lund, A.W. Molvik, T. Azevedo, J.-L. Vay, P. Stoltz and S. Veitzer, Simulating electron cloud effects in heavy-ion beams 544 (2005) 210
Cohen, R.H., see Molvik, A.W. 544 (2005) 194
Cohen, R.H., see Stoltz, P.H. 544 (2005) 502
Commeaux, C., see Bouchigny, S. 544 (2005) 417
Cottrill, L.A., see Town, R.P.J. 544 (2005) 61
Covo, M.K., see Logan, G. 544 (2005) 1
Covo, M.K., see Molvik, A.W. 544 (2005) 194
Covo, M.K., see Prost, L.R. 544 (2005) 151
Covo, M.K., see Seidl, P.A. 544 (2005) 486
Cowan, T.E., J. Fuchs, H. Ruhl, Y. Sentoku, A. Kemp, P. Audebert, M. Roth, R. Stephens, I. Barton, A. Blazevic, E. Brambrink, J. Cobble, J.C. Fernández, J.-C. Gauthier, M. Geissel, M. Hegelich, J. Kaae, S. Karsch, G.P. Le Sage, S. Letzring, M. Manclossi, S. Meyroneinc, A. Newkirk, H. Pépin and N. Renard-LeGalloudec, Ultra-low emittance, high current proton beams produced with a laser-virtual cathode sheath accelerator 544 (2005) 277
Cowan, T.E., see Geissel, M. 544 (2005) 55
Cui, Y., Y. Zou, M. Reiser, R.A. Kishek, I. Haber, S. Bernal and P.G. O'Shea, Coherent error study in a retarding field energy analyzer 544 (2005) 527
Cui, Y., see Kishek, R.A. 544 (2005) 179
Cuneo, M.E., see Callahan, D.A. 544 (2005) 9
Cuneo, M.E., see Geissel, M. 544 (2005) 55
Cunsolo, A., see Aisa, D. 544 (2005) 620

D'Anca, F., see Aisa, D. 544 (2005) 620
Danevich, F.A., V.V. Kobychev, S.S. Nagorny, D.V. Poda, V.I. Tretyak, S.S. Yurchenko and Yu.G. Zdesenko, $ZnWO_4$ crystals as detectors for 2β decay and dark matter experiments 544 (2005) 553
Danon, Y. and R.C. Block, Minimizing the statistical error in capture cross-section measurements 544 (2005) 659
Davids, B. and C.N. Davids, EMMA: A recoil mass spectrometer for ISAC-II at TRIUMF 544 (2005) 565
Davids, C.N., see Davids, B. 544 (2005) 565
Davidson, R., see Logan, G. 544 (2005) 1
Davidson, R., see Yu, S.S. 544 (2005) 294
Davidson, R.C., see Chung, M. 544 (2005) 514
Davidson, R.C., see Efthimion, P.C. 544 (2005) 378
Davidson, R.C., see Gilson, E.P. 544 (2005) 171
Davidson, R.C., see Hudson, S.R. 544 (2005) 458
Davidson, R.C., see Kaganovich, I.D. 544 (2005) 91
Davidson, R.C., see Kaganovich, I.D. 544 (2005) 383
Davidson, R.C., see Lee, W.W.-l. 544 (2005) 353
Davidson, R.C., see Lund, S.M. 544 (2005) 472
Davidson, R.C., see Qin, H. 544 (2005) 255
Davidson, R.C., see Roy, P.K. 544 (2005) 225
Davidson, R.C., see Startsev, E.A. 544 (2005) 125
Debonnel, C.S., S.S. Yu and P.F. Peterson, Progress towards thick liquid fusion chambers for assisted-pinch and solenoid focusings 544 (2005) 342
Debonnel, C.S., see Yu, S.S. 544 (2005) 294
De Francesco, A., see Aisa, D. 544 (2005) 620
Deriu, A., see Ciampolini, L. 544 (2005) 649
Deutsch, C., see Bret, A. 544 (2005) 427
Deutsch, C., see Tahir, N.A. 544 (2005) 16
Didelez, J.-P., see Bouchigny, S. 544 (2005) 417
DuBois, R.D., A.C.F. Santos and R.E. Olson, Scaling laws for electron loss from ion beams 544 (2005) 497
DuBois, R.D., see Olson, R.E. 544 (2005) 333

Efthimion, P., see Logan, G. ... 544 (2005) 1
Efthimion, P.C., E.P. Gilson, L. Grisham, R.C. Davidson, S. Yu, W. Waldron and B. Grant Logan, Development of a 1-m plasma source for heavy ion beam charge neutralization ... 544 (2005) 378
Efthimion, P.C., see Chung, M. ... 544 (2005) 514
Efthimion, P.C., see Gilson, E.P. ... 544 (2005) 171
Efthimion, P.C., see Roy, P.K. ... 544 (2005) 225
Eggert, T., see Kemmer, J. ... 544 (2005) 612
Eisele, I., see Kemmer, J. ... 544 (2005) 612
El-Guebaly, L., P. Wilson, M. Sawan, D. Henderson and A. Varuttamaseni, Recycling issues facing target and RTL materials of inertial fusion designs ... 544 (2005) 104
Eliezer, S., see Velarde, P. ... 544 (2005) 329
Eylon, S., E. Henestroza, P.K. Roy and S.S. Yu, Electron effects in the Neutralized Transport Experiment (NTX) 544 (2005) 506
Eylon, S., see Bieniosek, F.M. ... 544 (2005) 268
Eylon, S., see Bieniosek, F.M. ... 544 (2005) 481
Eylon, S., see Logan, G. ... 544 (2005) 1
Eylon, S., see Roy, P.K. ... 544 (2005) 225
Eylon, S., see Roy, P.K. ... 544 (2005) 520
Eylon, S., see Yu, S.S. ... 544 (2005) 294

Faltens, A., see Bieniosek, F.M. ... 544 (2005) 268
Faltens, A., see Bieniosek, F.M. ... 544 (2005) 481
Faltens, A., see Molvik, A.W. ... 544 (2005) 194
Faltens, A., see Prost, L.R. ... 544 (2005) 151
Faltens, A., see Sabbi, G. ... 544 (2005) 285
Faltens, A., see Seidl, P.A. ... 544 (2005) 486
Faltens, A., see Yu, S.S. ... 544 (2005) 294
Fernández, J.C., see Cowan, T.E. ... 544 (2005) 277
Fernández, J.C., see Geissel, M. ... 544 (2005) 55
Firpo, M.-C., see Bret, A. ... 544 (2005) 427
Formisano, F., see Aisa, D. ... 544 (2005) 620
Fortov, V.E., see Tahir, N.A. ... 544 (2005) 16
Franczak, B., see Spiller, P. ... 544 (2005) 117
Friedman, A., Simulation of intense beams for Heavy Ion Fusion ... 544 (2005) 160
Friedman, A., see Bieniosek, F.M. ... 544 (2005) 268
Friedman, A., see Cohen, R.H. ... 544 (2005) 210
Friedman, A., see Haber, I. ... 544 (2005) 441
Friedman, A., see Logan, G. ... 544 (2005) 1
Friedman, A., see Molvik, A.W. ... 544 (2005) 194
Friedman, A., see Prost, L.R. ... 544 (2005) 151
Friedman, A., see Vay, J.-L. ... 544 (2005) 347
Friedman, A., see Yu, S.S. ... 544 (2005) 294
Fuchs, J., see Cowan, T.E. ... 544 (2005) 277
Fuchs, J., see Geissel, M. ... 544 (2005) 55

Gahl, T., see Aisa, D. ... 544 (2005) 620
Gallix, R., see Goodin, D.T. ... 544 (2005) 34
Gao, X., see Cao, C. ... 544 (2005) 684
García-Toraño, E., M. Pozuelo and F. Salvat, Monte Carlo calculations of coincidence-summing corrections for volume sources in gamma-ray spectrometry with Ge detectors ... 544 (2005) 577
Gardner, R.P., see Guo, W. ... 544 (2005) 668
Gauthier, J.-C., see Cowan, T.E. ... 544 (2005) 277
Gauthier, J.-C., see Geissel, M. ... 544 (2005) 55
Geil, B., see Tahir, N.A. ... 544 (2005) 16
Geissel, M., M. Roth, M. Allen, P. Audebert, M. Basko, A. Blažević, E. Brambrink, J. Cobble, T.E. Cowan, M.E. Cuneo, J.C. Fernández, J. Fuchs, J.-C. Gauthier, M. Hegelich and S. Karsch, M.I-12: short pulse laser generated ion beams for fast ignition ... 544 (2005) 55

Geissel, M., see Cowan, T.E. ... 544 (2005) 277
Gendner, N., U. Holm, K.F. Johnson, A. Meyer-Larsen, M. Moritz and S. Thies, Bench tests with La-doped $PbWO_4$ crystals ... 544 (2005) 593
Genoni, T.C., see Rose, D.V. ... 544 (2005) 389
Genoni, T.C., see Welch, D.R. ... 544 (2005) 236
Gilson, E., see Logan, G. ... 544 (2005) 1
Gilson, E.P., M. Chung, R.C. Davidson, P.C. Efthimion, R. Majeski and E.A. Startsev, Simulation of long-distance beam propagation in the Paul trap simulator experiment ... 544 (2005) 171
Gilson, E.P., see Chung, M. ... 544 (2005) 514
Gilson, E.P., see Efthimion, P.C. ... 544 (2005) 378
Gilson, E.P., see Roy, P.K. ... 544 (2005) 225
Godlove, T., see Li, H. ... 544 (2005) 367
Godlove, T., see Walter, M. ... 544 (2005) 374
Godlove, T.F., see Kishek, R.A. ... 544 (2005) 179
Goldstrass, P., see Kemmer, J. ... 544 (2005) 612
Golubev, A.A., see Aksenov, A.G. ... 544 (2005) 412
Goodin, D.T., A. Nobile, N.B. Alexander, R. Gallix, J.L. Maxwell, R.W. Petzoldt, W.S. Rickman and E.I. Valmianski, Progress in heavy ion-driven target fabrication and injection ... 544 (2005) 34
Goodzeit, C., see Sabbi, G. ... 544 (2005) 285
Grandjouan, N., see Piriz, A.R. ... 544 (2005) 27
Grandjouan, N., see Tahir, N.A. ... 544 (2005) 16
Grant Logan, B., see Efthimion, P.C. ... 544 (2005) 378
Grayaznov, V., see Tahir, N.A. ... 544 (2005) 16
Greenway, W.G., see Roy, P.K. ... 544 (2005) 225
Greenway, W.G., see Roy, P.K. ... 544 (2005) 520
Greenwood, A.L., see Nikroo, A. ... 544 (2005) 42
Grisham, L., see Efthimion, P.C. ... 544 (2005) 378
Grisham, L., see Kaganovich, I.D. ... 544 (2005) 91
Grisham, L., see Kwan, J.W. ... 544 (2005) 134
Grisham, L., see Logan, G. ... 544 (2005) 1
Grisham, L.R., S.K. Hahto, S.T. Hahto, J.W. Kwan and K.N. Leung, Experimental evaluation of a negative-ion source for a heavy-ion fusion negative-ion driver ... 544 (2005) 216
Grote, D., see Logan, G. ... 544 (2005) 1
Grote, D.P. and W.M. Sharp, Simulation of integrated beam experiment designs ... 544 (2005) 360
Grote, D.P., see Haber, I. ... 544 (2005) 441
Grote, D.P., see Kwan, J.W. ... 544 (2005) 134
Grote, D.P., see Lund, S.M. ... 544 (2005) 472
Grote, D.P., see Sharp, W.M. ... 544 (2005) 398
Grote, D.P., see Vay, J.-L. ... 544 (2005) 347
Grote, D.P., see Westenskow, G.A. ... 544 (2005) 436
Grote, D.P., see Yu, S.S. ... 544 (2005) 294
Guarini, E., see Aisa, D. ... 544 (2005) 620
Gung, C., see Sabbi, G. ... 544 (2005) 285
Guo, W., R.P. Gardner and C.W. Mayo, A study of the real-time deconvolution of digitized waveforms with pulse pile up for digital radiation spectroscopy ... 544 (2005) 668

Haber, I., S. Bernal, R.A. Kishek, P.G. O'Shea, B. Quinn, M. Reiser, Y. Zou, A. Friedman, D.P. Grote and J.-L. Vay, Measurement and simulation of the UMER beam in the source region ... 544 (2005) 441
Haber, I., see Cui, Y. ... 544 (2005) 527
Haber, I., see Kishek, R.A. ... 544 (2005) 179
Haber, I., see Kwan, J.W. ... 544 (2005) 134
Haber, I., see Kwan, J.W. ... 544 (2005) 430
Haber, I., see Li, H. ... 544 (2005) 367
Haber, I., see Logan, G. ... 544 (2005) 1
Haber, I., see Prost, L.R. ... 544 (2005) 151
Haber, I., see Walter, M. ... 544 (2005) 374
Hahto, S.K., see Grisham, L.R. ... 544 (2005) 216

Hahto, S.T., see Grisham, L.R. ... 544 (2005) 216
Halaxa, E., see Kwan, J.W. ... 544 (2005) 134
Halaxa, E., see Kwan, J.W. ... 544 (2005) 430
Halaxa, E., see Westenskow, G.A. ... 544 (2005) 436
Hannink, R., see Roy, P.K. ... 544 (2005) 520
Harris, J., see Kishek, R.A. ... 544 (2005) 179
Hasegawa, J., see Oguri, Y. ... 544 (2005) 76
Hegelich, M., see Cowan, T.E. ... 544 (2005) 277
Hegelich, M., see Geissel, M. ... 544 (2005) 55
Heitzenroeder, P., see Yu, S.S. ... 544 (2005) 294
Henderson, D., see El-Guebaly, L. ... 544 (2005) 104
Henestroza, E., see Barnard, J.J. ... 544 (2005) 243
Henestroza, E., see Bieniosek, F.M. ... 544 (2005) 481
Henestroza, E., see Eylon, S. ... 544 (2005) 506
Henestroza, E., see Kwan, J.W. ... 544 (2005) 134
Henestroza, E., see Logan, G. ... 544 (2005) 1
Henestroza, E., see Roy, P.K. ... 544 (2005) 225
Henestroza, E., see Roy, P.K. ... 544 (2005) 520
Henestroza, E., see Yu, S.S. ... 544 (2005) 294
Hinson, W., see Sabbi, G. ... 544 (2005) 285
Hoffmann, D.H.H., see Piriz, A.R. ... 544 (2005) 27
Hoffmann, D.H.H., see Tahir, N.A. ... 544 (2005) 16
Holloway, M., see Walter, M. ... 544 (2005) 374
Holm, U., see Gendner, N. ... 544 (2005) 593
Horioka, K., see Kikuchi, T. ... 544 (2005) 262
Horioka, K., see Oguri, Y. ... 544 (2005) 76
Horvat, V., see Kaganovich, I.D. ... 544 (2005) 91
Horvat, V., see Olson, R.E. ... 544 (2005) 333
Huang, Y., see Cao, C. ... 544 (2005) 684
Hudson, S.R., H. Qin and R.C. Davidson, Chaotic particle trajectories in high-intensity finite-length charge bunches ... 544 (2005) 458
Hülsmann, P., see Spiller, P. ... 544 (2005) 117
Huo, Y., see Kishek, R.A. ... 544 (2005) 179
Huo, Y., see Li, H. ... 544 (2005) 367
Hwang, P., see Sabbi, G. ... 544 (2005) 285

Ivanov, P., see Medin, S. ... 544 (2005) 300

Jahn, S., see Aisa, D. ... 544 (2005) 620
Johnson, K.F., see Gendner, N. ... 544 (2005) 593

Kaae, J., see Cowan, T.E. ... 544 (2005) 277
Kaganovich, I., see Logan, G. ... 544 (2005) 1
Kaganovich, I., see Roy, P.K. ... 544 (2005) 225
Kaganovich, I., see Yu, S.S. ... 544 (2005) 294
Kaganovich, I.D., E.A. Startsev, R.C. Davidson and D. Welch, Ion beam pulse neutralization by a background plasma in a solenoidal magnetic field ... 544 (2005) 383
Kaganovich, I.D., E.A. Startsev, R.C. Davidson, S.R. Kecskemeti, A. Bin-Nun, D. Mueller, L. Grisham, R.L. Watson, V. Horvat, K.E. Zaharakis and Y. Peng, Ionization cross-sections for ion–atom collisions in high-energy ion beams ... 544 (2005) 91
Kaganovich, I.D., see Barnard, J.J. ... 544 (2005) 243
Kaneko, J., see Oguri, Y. ... 544 (2005) 76
Kapica, J., see Kwan, J.W. ... 544 (2005) 134
Karsch, S., see Cowan, T.E. ... 544 (2005) 277
Karsch, S., see Geissel, M. ... 544 (2005) 55
Katayama, T., see Kikuchi, T. ... 544 (2005) 262

Katayama, T., see Kikuchi, T. ... 544 (2005) 393
Kawata, S., R. Sonobe, T. Someya and T. Kikuchi, Final beam transport in HIF ... 544 (2005) 98
Kawata, S., see Kikuchi, T. ... 544 (2005) 262
Kawata, S., see Kikuchi, T. ... 544 (2005) 393
Kawata, S., see Someya, T. ... 544 (2005) 406
Kecskemeti, S.R., see Kaganovich, I.D. ... 544 (2005) 91
Kemmer, J., F. Wiest, A. Pahlke, O. Boslau, P. Goldstrass, T. Eggert, M. Schindler and I. Eisele, Epitaxy — a new technology for fabrication of advanced silicon radiation detectors ... 544 (2005) 612
Kemp, A., see Cowan, T.E. ... 544 (2005) 277
Key, M.H., see Town, R.P.J. ... 544 (2005) 61
Kholin, S.A., V.I. Nechpai, L.F. Potapkina and S.G. Smirnov, 2D model of a concentrated shell with magnetic field ... 544 (2005) 421
Kikuchi, T., S.M. Lund, T. Katayama and S. Kawata, Bunch compression in a ring for future RIKEN projects ... 544 (2005) 393
Kikuchi, T., T. Someya, S. Kawata, M. Nakajima, K. Horioka and T. Katayama, Beam dynamics and emittance growth during final beam bunching in HIF driver systems ... 544 (2005) 262
Kikuchi, T., see Kawata, S. ... 544 (2005) 98
Kikuchi, T., see Someya, T. ... 544 (2005) 406
Kirk, M., see Spiller, P. ... 544 (2005) 117
Kishek, R., see Logan, G. ... 544 (2005) 1
Kishek, R.A., S. Bernal, Y. Cui, T.F. Godlove, I. Haber, J. Harris, Y. Huo, H. Li, P.G. O'Shea, B. Quinn, M. Reiser, M. Walter, M. Wilson and Y. Zou, HIF research on the University of Maryland Electron Ring (UMER) ... 544 (2005) 179
Kishek, R.A., see Cui, Y. ... 544 (2005) 527
Kishek, R.A., see Haber, I. ... 544 (2005) 441
Kishek, R.A., see Li, H. ... 544 (2005) 367
Kishek, R.A., see Walter, M. ... 544 (2005) 374
Klein, H., see Meusel, O. ... 544 (2005) 447
Kobychev, V.V., see Danevich, F.A. ... 544 (2005) 553
Koniges, A.E., see Callahan, D.A. ... 544 (2005) 9
Konkachbaev, A.I., N.B. Morley and M.A. Abdou, Three-dimensional modeling of slab liquid jets used for heavy-ion fusion for beam line protection ... 544 (2005) 337
Koshkarev, D., see Medin, S. ... 544 (2005) 300
Koshkarev, D.G., see Aksenov, A.G. ... 544 (2005) 412
Kruer, W.L., see Town, R.P.J. ... 544 (2005) 61
Kulish, M., see Tahir, N.A. ... 544 (2005) 16
Kwan, J., see Logan, G. ... 544 (2005) 1
Kwan, J.W., D. Baca, E. Henestroza, J. Kapica, F.M. Bieniosek, W.L. Waldron, J.-L. Vay, S. Yu, G.A. Westenskow, D.P. Grote, E. Halaxa, I. Haber and L. Grisham, Ion source and injector experiments at the HIF/VNL ... 544 (2005) 134
Kwan, J.W., F.M. Bieniosek, W.L. Waldron, J.-L. Vay, G.A. Westenskow, E. Halaxa and I. Haber, Production of a high brightness beam from a large surface source ... 544 (2005) 430
Kwan, J.W., see Bieniosek, F.M. ... 544 (2005) 268
Kwan, J.W., see Grisham, L.R. ... 544 (2005) 216
Kwan, J.W., see Westenskow, G.A. ... 544 (2005) 436
Kwan, J.W., see Yu, S.S. ... 544 (2005) 294

Labbe-Lavigne, S., see Ciampolini, L. ... 544 (2005) 649
Laloni, A., see Aisa, D. ... 544 (2005) 620
Lamb, D., see Walter, M. ... 544 (2005) 374
Langdon, A.B., see Town, R.P.J. ... 544 (2005) 61
Lasinski, B.F., see Town, R.P.J. ... 544 (2005) 61
Latkowski, J.F., see Yu, S.S. ... 544 (2005) 294
Le Sage, G.P., see Cowan, T.E. ... 544 (2005) 277
Lee, E., Solenoid transport for heavy ion fusion ... 544 (2005) 187
Lee, E.P., see Leitner, M.A. ... 544 (2005) 315
Lee, E.P., see Logan, G. ... 544 (2005) 1
Lee, E.P., see Qin, H. ... 544 (2005) 255

Lee, E.P., see Rose, D.V. ... 544 (2005) 389
Lee, E.P., see Yu, S.S. ... 544 (2005) 294
Lee, W.W.-l., R.C. Davidson, E.A. Startsev and H. Qin, The electromagnetic Darwin model for intense charged particle beams ... 544 (2005) 353
Leitner, M., see Logan, G. ... 544 (2005) 1
Leitner, M.A., C.M. Celata, E.P. Lee, B.G. Logan, W.L. Waldron, S.S. Yu and J.J. Barnard, Options for integrated beam experiments for inertial fusion energy and high-energy density physics research ... 544 (2005) 315
Leitner, M.A., see Bieniosek, F.M. ... 544 (2005) 268
Letzring, S., see Cowan, T.E. ... 544 (2005) 277
Leung, K.N., see Grisham, L.R. ... 544 (2005) 216
Li, H., S. Bernal, T. Godlove, Y. Huo, R.A. Kishek, I. Haber, B. Quinn, M. Walter, Y. Zou, M. Reiser and P.G. O'Shea, Beam control and matching for the transport of intense beams ... 544 (2005) 367
Li, H., see Kishek, R.A. ... 544 (2005) 179
Li, H., see Walter, M. ... 544 (2005) 374
Lietzke, A., see Sabbi, G. ... 544 (2005) 285
Lifschitz, A.F., G. Maynard and J.-L. Vay, Dynamics of neutralizing electrons and the focusability of intense ion beams in HIF accelerating structures ... 544 (2005) 202
Liu, P., see Cao, C. ... 544 (2005) 684
Logan, B.G., see Barnard, J.J. ... 544 (2005) 243
Logan, B.G., see Leitner, M.A. ... 544 (2005) 315
Logan, B.G., see Meier, W.R. ... 544 (2005) 310
Logan, B.G., see Roy, P.K. ... 544 (2005) 225
Logan, B.G., see Yu, S.S. ... 544 (2005) 294
Logan, G., F. Bieniosek, C. Celata, E. Henestroza, J. Kwan, E.P. Lee, M. Leitner, L. Prost, P. Roy, P.A. Seidl, S. Eylon, J.-L. Vay, W. Waldron, S. Yu, J. Barnard, D. Callahan, R. Cohen, A. Friedman, D. Grote, M.K. Covo, W.R. Meier, A. Molvik, S. Lund, R. Davidson, P. Efthimion, E. Gilson, L. Grisham, I. Kaganovich, H. Qin, E. Startsev, D. Rose, D. Welch, C. Olson, R. Kishek, P. O'Shea and I. Haber, Overview of US heavy-ion fusion progress and plans ... 544 (2005) 1
Lomonosov, I.V., see Tahir, N.A. ... 544 (2005) 16
López Cela, J.J., see Piriz, A.R. ... 544 (2005) 27
Ludvig, J., see Roy, P.K. ... 544 (2005) 520
Lund, S., see Logan, G. ... 544 (2005) 1
Lund, S., see Sabbi, G. ... 544 (2005) 285
Lund, S.M., D.P. Grote and R.C. Davidson, Simulations of beam emittance growth from the collective relaxation of space-charge nonuniformities ... 544 (2005) 472
Lund, S.M., see Cohen, R.H. ... 544 (2005) 210
Lund, S.M., see Kikuchi, T. ... 544 (2005) 393
Lund, S.M., see Molvik, A.W. ... 544 (2005) 194
Lund, S.M., see Prost, L.R. ... 544 (2005) 151

Ma, P., see Cao, C. ... 544 (2005) 684
Majeski, R., see Chung, M. ... 544 (2005) 514
Majeski, R., see Gilson, E.P. ... 544 (2005) 171
Manclossi, M., see Cowan, T.E. ... 544 (2005) 277
Martínez-Val, J.M., see Velarde, P. ... 544 (2005) 329
Martovetsky, N., see Sabbi, G. ... 544 (2005) 285
Materna, T., THOMATE: A new protocol to compare simulated data and experiment by minimizing a χ^2 ... 544 (2005) 679
Maxwell, J.L., see Goodin, D.T. ... 544 (2005) 34
Maynard, G. and M.D. Barriga-Carrasco, Isochoric heating of DT fuels through PW-laser-produced proton beams ... 544 (2005) 84
Maynard, G., see Lifschitz, A.F. ... 544 (2005) 202
Mayo, C.W., see Guo, W. ... 544 (2005) 668
Medin, S., M. Basko, M. Churazov, P. Ivanov, D. Koshkarev, Yu. Orlov, A. Parshikov, B. Sharkov and V. Suslin, Power plant conceptual design for fast ignition heavy-ion fusion ... 544 (2005) 300
Meier, W.R. and B.G. Logan, Systems analysis for modular vs. multi-beam HIF drivers ... 544 (2005) 310
Meier, W.R., see Barnard, J.J. ... 544 (2005) 243
Meier, W.R., see Logan, G. ... 544 (2005) 1

Meinke, R., see Sabbi, G. . . . 544 (2005) 285
Meusel, O., A. Bechtold, J. Pozimski, U. Ratzinger, A. Schempp and H. Klein, Low-energy beam transport using space-charge lenses . . . 544 (2005) 447
Meyer-Larsen, A., see Gendner, N. . . . 544 (2005) 593
Meyroneinc, S., see Cowan, T.E. . . . 544 (2005) 277
Miley, G.H., see Wu, L. . . . 544 (2005) 533
Minervini, J., see Sabbi, G. . . . 544 (2005) 285
Mintsev, V., see Tahir, N.A. . . . 544 (2005) 16
Molvik, A., see Logan, G. . . . 544 (2005) 1
Molvik, A.W., M.K. Covo, F.M. Bieniosek, R.H. Cohen, A. Faltens, A. Friedman, S.M. Lund, L. Prost and P.A. Seidl, Experimental studies of electrons in a heavy-ion beam . . . 544 (2005) 194
Molvik, A.W., see Bieniosek, F.M. . . . 544 (2005) 268
Molvik, A.W., see Cohen, R.H. . . . 544 (2005) 210
Molvik, A.W., see Prost, L.R. . . . 544 (2005) 151
Molvik, A.W., see Seidl, P.A. . . . 544 (2005) 486
Molvik, A.W., see Stoltz, P.H. . . . 544 (2005) 502
Momota, H., see Wu, L. . . . 544 (2005) 533
Mondelli, C., see Ciampolini, L. . . . 544 (2005) 649
Moritz, M., see Gendner, N. . . . 544 (2005) 593
Morley, N.B., see Konkachbaev, A.I. . . . 544 (2005) 337
Mueller, D., see Kaganovich, I.D. . . . 544 (2005) 91
Murakami, M. and H. Nagatomo, A new twist for inertial fusion energy: Impact ignition . . . 544 (2005) 67
Mutka, H., see Aisa, D. . . . 544 (2005) 620

Nagatomo, H., see Murakami, M. . . . 544 (2005) 67
Nagorny, S.S., see Danevich, F.A. . . . 544 (2005) 553
Nakajima, M., see Kikuchi, T. . . . 544 (2005) 262
Natali, F., see Ciampolini, L. . . . 544 (2005) 649
Nechpai, V.I., see Kholin, S.A. . . . 544 (2005) 421
Newkirk, A., see Cowan, T.E. . . . 544 (2005) 277
Ni, P., see Tahir, N.A. . . . 544 (2005) 16
Nikolaev, D., see Tahir, N.A. . . . 544 (2005) 16
Nikroo, A., J. Pontelandolfo, A.L. Greenwood, J.L. Stillwell and D.A. Callahan, Fabrication of capsules with angle-dependent gold shims for hohlraum drive symmetry correction . . . 544 (2005) 42
Nikroo, A., see Callahan, D.A. . . . 544 (2005) 9
Nobile, A., see Goodin, D.T. . . . 544 (2005) 34

Ogando, F., see Velarde, P. . . . 544 (2005) 329
Ogawa, M., see Oguri, Y. . . . 544 (2005) 76
Ogoyski, A.I., see Someya, T. . . . 544 (2005) 406
Oguri, Y., J. Hasegawa, J. Kaneko, M. Ogawa and K. Horioka, Stopping of low-energy highly charged ions in dense plasmas . . . 544 (2005) 76
Olson, C., see Logan, G. . . . 544 (2005) 1
Olson, R.E., R.L. Watson, V. Horvat, K.E. Zaharakis, R.D. DuBois and T. Stöhlker, Electron stripping cross-sections for fast, low charge state uranium ions . . . 544 (2005) 333
Olson, R.E., see DuBois, R.D. . . . 544 (2005) 497
Omet, C., see Spiller, P. . . . 544 (2005) 117
O'Shea, P., see Logan, G. . . . 544 (2005) 1
O'Shea, P.G., see Cui, Y. . . . 544 (2005) 527
O'Shea, P.G., see Haber, I. . . . 544 (2005) 441
O'Shea, P.G., see Kishek, R.A. . . . 544 (2005) 179
O'Shea, P.G., see Li, H. . . . 544 (2005) 367
O'Shea, P.G., see Walter, M. . . . 544 (2005) 374
Orecchini, A., see Aisa, D. . . . 544 (2005) 620
Orlov, Yu., see Medin, S. . . . 544 (2005) 300

Pahlke, A., see Kemmer, J. ... 544 (2005) 612
Parshikov, A., see Medin, S. ... 544 (2005) 300
Peng, Y., see Kaganovich, I.D. ... 544 (2005) 91
Pépin, H., see Cowan, T.E. ... 544 (2005) 277
Peterson, P.F., see Debonnel, C.S. ... 544 (2005) 342
Peterson, P.F., see Yu, S.S. ... 544 (2005) 294
Petrillo, C., see Aisa, D. ... 544 (2005) 620
Petzoldt, R.W., see Goodin, D.T. ... 544 (2005) 34
Piriz, A.R., M. Temporal, J.J. López Cela, N. Grandjouan, N.A. Tahir, M.C. Serna Moreno, R.F. Portugues and D.H.H. Hoffmann, Target design for the cylindrical compression of matter driven by heavy ion beams ... 544 (2005) 27
Piriz, A.R., see Tahir, N.A. ... 544 (2005) 16
Poda, D.V., see Danevich, F.A. ... 544 (2005) 553
Pommé, S., T. Altzitzoglou, R. Van Ammel and G. Sibbens, Standardisation of ^{125}I using seven techniques for radioactivity measurement ... 544 (2005) 584
Pontelandolfo, J., see Nikroo, A. ... 544 (2005) 42
Portugues, R.F., see Piriz, A.R. ... 544 (2005) 27
Potapkina, L.F., see Kholin, S.A. ... 544 (2005) 421
Pozimski, J., see Meusel, O. ... 544 (2005) 447
Pozuelo, M., see García-Toraño, E. ... 544 (2005) 577
Prost, L., see Bieniosek, F.M. ... 544 (2005) 268
Prost, L., see Bieniosek, F.M. ... 544 (2005) 481
Prost, L., see Logan, G. ... 544 (2005) 1
Prost, L., see Molvik, A.W. ... 544 (2005) 194
Prost, L.R., F.M. Bieniosek, C.M. Celata, A. Faltens, P.A. Seidl, W.L. Waldron, R. Cohen, A. Friedman, M.K. Covo, S.M. Lund, A.W. Molvik and I. Haber, Experimental study of the transport limits of intense heavy ion beams in the HCX ... 544 (2005) 151
Pusterla, M., Non-conventional approach to beam dynamics in heavy-ion accelerators: A test on the HIDIF parameters ... 544 (2005) 454

Qin, H., R.C. Davidson, J.J. Barnard and E.P. Lee, Drift compression and final focus options for heavy ion fusion ... 544 (2005) 255
Qin, H., see Hudson, S.R. ... 544 (2005) 458
Qin, H., see Lee, W.W.-l. ... 544 (2005) 353
Qin, H., see Logan, G. ... 544 (2005) 1
Qin, H., see Startsev, E.A. ... 544 (2005) 125
Quinn, B., see Haber, I. ... 544 (2005) 441
Quinn, B., see Kishek, R.A. ... 544 (2005) 179
Quinn, B., see Li, H. ... 544 (2005) 367
Quinn, B., see Walter, M. ... 544 (2005) 374

Rambaldi, S., see Benedetti, C. ... 544 (2005) 465
Ratschow, S., see Spiller, P. ... 544 (2005) 117
Ratzinger, U., see Meusel, O. ... 544 (2005) 447
Reiser, M., see Cui, Y. ... 544 (2005) 527
Reiser, M., see Haber, I. ... 544 (2005) 441
Reiser, M., see Kishek, R.A. ... 544 (2005) 179
Reiser, M., see Li, H. ... 544 (2005) 367
Reiser, M., see Walter, M. ... 544 (2005) 374
Renard-LeGalloudec, N., see Cowan, T.E. ... 544 (2005) 277
Rickman, W.S., see Goodin, D.T. ... 544 (2005) 34
Ritchie, G., see Seidl, P.A. ... 544 (2005) 486
Rose, D., see Logan, G. ... 544 (2005) 1
Rose, D., see Yu, S.S. ... 544 (2005) 294
Rose, D.V., T.C. Genoni, D.R. Welch and E.P. Lee, Two-stream stability assessment of intense heavy ion beams propagating in a plasma immersed in an axial magnetic field ... 544 (2005) 389
Rose, D.V., see Barnard, J.J. ... 544 (2005) 243

Rose, D.V., see Roy, P.K. . . . 544 (2005) 225
Rose, D.V., see Welch, D.R. . . . 544 (2005) 236
Roth, M., see Cowan, T.E. . . . 544 (2005) 277
Roth, M., see Geissel, M. . . . 544 (2005) 55
Rouillé, G., see Bouchigny, S. . . . 544 (2005) 417
Roy, P., see Logan, G. . . . 544 (2005) 1
Roy, P.K., S.S. Yu, S. Eylon, E. Henestroza, A. Anders, E.P. Gilson, F.M. Bieniosek, W.G. Greenway, B.G. Logan, W.L. Waldron, D.B. Shuman, D.L. Vanecek, D.R. Welch, D.V. Rose, C. Thoma, R.C. Davidson, P.C. Efthimion, I. Kaganovich, A.B. Sefkow and W.M. Sharp, Neutralized transport experiment 544 (2005) 225
Roy, P.K., S.S. Yu, S. Eylon, E. Henestroza, J. Ludvig, D.B. Shuman, W.G. Greenway, D.L. Vanecek, W.L. Waldron, R. Hannink and F.M. Bieniosek, Study of a non-intercepting ion beam diagnostic for beam density profile 544 (2005) 520
Roy, P.K., see Bieniosek, F.M. . . . 544 (2005) 268
Roy, P.K., see Bieniosek, F.M. . . . 544 (2005) 481
Roy, P.K., see Eylon, S. . . . 544 (2005) 506
Roy, P.K., see Yu, S.S. . . . 544 (2005) 294
Ruhl, H., see Cowan, T.E. . . . 544 (2005) 277

Sabbi, G., L. Chiesa, A. Faltens, A. Lietzke, P. Seidl, S. Lund, N. Martovetsky, C. Gung, J. Minervini, J. Schultz, P. Hwang, C. Goodzeit, W. Hinson and R. Meinke, Development of superconducting magnet systems for HIF experiments 544 (2005) 285
Sabbi, G., see Seidl, P.A. . . . 544 (2005) 486
Sabbi, G.-L., see Yu, S.S. . . . 544 (2005) 294
Sacchetti, F., see Aisa, D. . . . 544 (2005) 620
Salvat, F., see García-Toraño, E. . . . 544 (2005) 577
Santhanam, P., see Barnard, J.J. . . . 544 (2005) 243
Santos, A.C.F., see DuBois, R.D. . . . 544 (2005) 497
Sawan, M., see El-Guebaly, L. . . . 544 (2005) 104
Schempp, A., see Meusel, O. . . . 544 (2005) 447
Schindler, M., see Kemmer, J. . . . 544 (2005) 612
Schultz, J., see Sabbi, G. . . . 544 (2005) 285
Sefkow, A.B., see Roy, P.K. . . . 544 (2005) 225
Seidl, P., see Sabbi, G. . . . 544 (2005) 285
Seidl, P.A., M.K. Covo, D. Baca, A. Faltens, A.W. Molvik, G. Ritchie, G. Sabbi and D. Shuman, Magnetic field measurements of quadrupoles in the High-Current Experiment 544 (2005) 486
Seidl, P.A., see Bieniosek, F.M. . . . 544 (2005) 268
Seidl, P.A., see Bieniosek, F.M. . . . 544 (2005) 481
Seidl, P.A., see Logan, G. . . . 544 (2005) 1
Seidl, P.A., see Molvik, A.W. . . . 544 (2005) 194
Seidl, P.A., see Prost, L.R. . . . 544 (2005) 151
Seidl, P.A., see Yu, S.S. . . . 544 (2005) 294
Sentoku, Y., see Cowan, T.E. . . . 544 (2005) 277
Serna Moreno, M.C., see Piriz, A.R. . . . 544 (2005) 27
Sharkov, B., see Medin, S. . . . 544 (2005) 300
Sharp, W.M., J.J. Barnard, D.P. Grote, C.M. Celata and S.S. Yu, Simulation of drift compression for heavy-ion fusion 544 (2005) 398
Sharp, W.M., see Barnard, J.J. . . . 544 (2005) 243
Sharp, W.M., see Grote, D.P. . . . 544 (2005) 360
Sharp, W.M., see Roy, P.K. . . . 544 (2005) 225
Sharp, W.M., see Yu, S.S. . . . 544 (2005) 294
Shilkin, N., see Tahir, N.A. . . . 544 (2005) 16
Shuman, D., see Seidl, P.A. . . . 544 (2005) 486
Shuman, D.B., see Roy, P.K. . . . 544 (2005) 225
Shuman, D.B., see Roy, P.K. . . . 544 (2005) 520
Shutov, A., see Tahir, N.A. . . . 544 (2005) 16
Sibbens, G., see Pommé, S. . . . 544 (2005) 584
Sketchley, T., see Calderoni, P. . . . 544 (2005) 111

Smirnov, S.G., see Kholin, S.A. ... 544 (2005) 421
Snavely, R.A., see Town, R.P.J. ... 544 (2005) 61
Someya, T., S. Kawata, T. Kikuchi and A.I. Ogoyski, HIB illumination on a target in HIF ... 544 (2005) 406
Someya, T., see Kawata, S. ... 544 (2005) 98
Someya, T., see Kikuchi, T. ... 544 (2005) 262
Sonobe, R., see Kawata, S. ... 544 (2005) 98
Spiller, P., K. Blasche, B. Franczak, M. Kirk, P. Hülsmann, C. Omet, S. Ratschow and J. Stadlmann, Accelerator plans at GSI for plasma physics applications ... 544 (2005) 117
Spiller, P., see Tahir, N.A. ... 544 (2005) 16
Stadlmann, J., see Spiller, P. ... 544 (2005) 117
Startsev, E., see Logan, G. ... 544 (2005) 1
Startsev, E.A., R.C. Davidson and H. Qin, Three-dimensional numerical studies of the temperature anisotropy instability in intense charged particle beams ... 544 (2005) 125
Startsev, E.A., see Chung, M. ... 544 (2005) 514
Startsev, E.A., see Gilson, E.P. ... 544 (2005) 171
Startsev, E.A., see Kaganovich, I.D. ... 544 (2005) 91
Startsev, E.A., see Kaganovich, I.D. ... 544 (2005) 383
Startsev, E.A., see Lee, W.W.-l. ... 544 (2005) 353
Stephens, R., see Cowan, T.E. ... 544 (2005) 277
Still, C.H., see Town, R.P.J. ... 544 (2005) 61
Stillwell, J.L., see Nikroo, A. ... 544 (2005) 42
Stöhlker, T., see Olson, R.E. ... 544 (2005) 333
Stoltz, P., see Cohen, R.H. ... 544 (2005) 210
Stoltz, P.H., S.A. Veitzer, R.H. Cohen, A.W. Molvik and J.-L. Vay, Energy loss, range, and electron yield comparisons of the CRANGE ion–material interaction code ... 544 (2005) 502
Suck, J.-B., see Aisa, D. ... 544 (2005) 620
Suslin, V., see Medin, S. ... 544 (2005) 300

Tabak, M. and D. Callahan, Models of gain curves for fast ignition ... 544 (2005) 48
Tabak, M., see Callahan, D.A. ... 544 (2005) 9
Tabak, M., see Clark, D.S. ... 544 (2005) 324
Tabak, M., see Town, R.P.J. ... 544 (2005) 61
Tahir, N.A., A. Adonin, C. Deutsch, V.E. Fortov, N. Grandjouan, B. Geil, V. Grayaznov, D.H.H. Hoffmann, M. Kulish, I.V. Lomonosov, V. Mintsev, P. Ni, D. Nikolaev, A.R. Piriz, N. Shilkin, P. Spiller, A. Shutov, M. Temporal, V. Ternovoi, S. Udrea and D. Varentsov, Studies of heavy ion-induced high-energy density states in matter at the GSI Darmstadt SIS-18 and future FAIR facility ... 544 (2005) 16
Tahir, N.A., see Piriz, A.R. ... 544 (2005) 27
Temporal, M., see Piriz, A.R. ... 544 (2005) 27
Temporal, M., see Tahir, N.A. ... 544 (2005) 16
Ternovoi, V., see Tahir, N.A. ... 544 (2005) 16
Thies, S., see Gendner, N. ... 544 (2005) 593
Thoma, C., see Roy, P.K. ... 544 (2005) 225
Town, R.P.J., C. Chen, L.A. Cottrill, M.H. Key, W.L. Kruer, A.B. Langdon, B.F. Lasinski, R.A. Snavely, C.H. Still, M. Tabak, D.R. Welch and S.C. Wilks, Simulations of electron transport for fast ignition using LSP ... 544 (2005) 61
Tretyak, V.I., see Danevich, F.A. ... 544 (2005) 553
Turchetti, G., see Benedetti, C. ... 544 (2005) 465

Udrea, S., see Tahir, N.A. ... 544 (2005) 16

Valmianski, E.I., see Goodin, D.T. ... 544 (2005) 34
Van Ammel, R., see Pommé, S. ... 544 (2005) 584
Vanecek, D.L., see Roy, P.K. ... 544 (2005) 225
Vanecek, D.L., see Roy, P.K. ... 544 (2005) 520
Varentsov, D., see Tahir, N.A. ... 544 (2005) 16
Varuttamaseni, A., see El-Guebaly, L. ... 544 (2005) 104

Vay, J.-L., A. Friedman and D.P. Grote, Application of adaptive mesh refinement to PIC simulations in heavy ion fusion ... 544 (2005) 347
Vay, J.-L., see Cohen, R.H. ... 544 (2005) 210
Vay, J.-L., see Haber, I. ... 544 (2005) 441
Vay, J.-L., see Kwan, J.W. ... 544 (2005) 134
Vay, J.-L., see Kwan, J.W. ... 544 (2005) 430
Vay, J.-L., see Lifschitz, A.F. ... 544 (2005) 202
Vay, J.-L., see Logan, G. ... 544 (2005) 1
Vay, J.-L., see Stoltz, P.H. ... 544 (2005) 502
Veitzer, S., see Cohen, R.H. ... 544 (2005) 210
Veitzer, S.A., see Stoltz, P.H. ... 544 (2005) 502
Velarde, P., F. Ogando, S. Eliezer and J.M. Martínez-Val, Fast-ignition heavy-ion fusion target by jet impact 544 (2005) 329
Venturi, G., see Aisa, D. ... 544 (2005) 620
Vesey, R.A., see Callahan, D.A. ... 544 (2005) 9

Waldron, W., see Efthimion, P.C. ... 544 (2005) 378
Waldron, W., see Logan, G. ... 544 (2005) 1
Waldron, W.L., see Bieniosek, F.M. ... 544 (2005) 481
Waldron, W.L., see Kwan, J.W. ... 544 (2005) 134
Waldron, W.L., see Kwan, J.W. ... 544 (2005) 430
Waldron, W.L., see Leitner, M.A. ... 544 (2005) 315
Waldron, W.L., see Prost, L.R. ... 544 (2005) 151
Waldron, W.L., see Roy, P.K. ... 544 (2005) 225
Waldron, W.L., see Roy, P.K. ... 544 (2005) 520
Waldron, W.L., see Westenskow, G.A. ... 544 (2005) 436
Walter, M., B. Quinn, D. Lamb, S. Bernal, T. Godlove, I. Haber, M. Holloway, R.A. Kishek, H. Li, P.G. O'Shea and M. Reiser, Experimental tests of the injection Y on the University of Maryland Electron Ring ... 544 (2005) 374
Walter, M., see Kishek, R.A. ... 544 (2005) 179
Walter, M., see Li, H. ... 544 (2005) 367
Wang, F., see Cao, C. ... 544 (2005) 684
Watson, R.L., see Kaganovich, I.D. ... 544 (2005) 91
Watson, R.L., see Olson, R.E. ... 544 (2005) 333
Welch, D., see Kaganovich, I.D. ... 544 (2005) 383
Welch, D., see Logan, G. ... 544 (2005) 1
Welch, D.R., D.V. Rose, T.C. Genoni, S.S. Yu and J.J. Barnard, Simulations of neutralized final focus ... 544 (2005) 236
Welch, D.R., see Barnard, J.J. ... 544 (2005) 243
Welch, D.R., see Rose, D.V. ... 544 (2005) 389
Welch, D.R., see Roy, P.K. ... 544 (2005) 225
Welch, D.R., see Town, R.P.J. ... 544 (2005) 61
Welch, D.R., see Yu, S.S. ... 544 (2005) 294
Westenskow, G., see Bieniosek, F.M. ... 544 (2005) 268
Westenskow, G.A., D.P. Grote, E. Halaxa, J.W. Kwan and W.L. Waldron, RF Plasma source for a Heavy Ion Fusion injector ... 544 (2005) 436
Westenskow, G.A., see Kwan, J.W. ... 544 (2005) 134
Westenskow, G.A., see Kwan, J.W. ... 544 (2005) 430
Wiest, F., see Kemmer, J. ... 544 (2005) 612
Wilks, S.C., see Town, R.P.J. ... 544 (2005) 61
Wilson, M., see Kishek, R.A. ... 544 (2005) 179
Wilson, P., see El-Guebaly, L. ... 544 (2005) 104
Wu, L., G.H. Miley and H. Momota, Space-charge neutralization of heavy ion beams via electron injection TH.P-31 ... 544 (2005) 533

Yamanishi, H., Design of a portable directional neutron source finder ... 544 (2005) 643
Ying, A., see Calderoni, P. ... 544 (2005) 111
Yu, H., see Cao, C. ... 544 (2005) 684
Yu, S., see Efthimion, P.C. ... 544 (2005) 378

Yu, S., see Kwan, J.W. . . . 544 (2005) 134
Yu, S., see Logan, G. . . . 544 (2005) 1
Yu, S.S., R.P. Abbott, R.O. Bangerter, J.J. Barnard, R.J. Briggs, D. Callahan, C.M. Celata, R. Davidson, C.S. Debonnel, S. Eylon, A. Faltens, A. Friedman, D.P. Grote, P. Heitzenroeder, E. Henestroza, I. Kaganovich, J.W. Kwan, J.F. Latkowski, E.P. Lee, B.G. Logan, P.F. Peterson, D. Rose, P.K. Roy, G.-L. Sabbi, P.A. Seidl, W.M. Sharp and D.R. Welch, Heavy ion fusion (HIF) driver point designs . . . 544 (2005) 294
Yu, S.S., see Barnard, J.J. . . . 544 (2005) 243
Yu, S.S., see Bieniosek, F.M. . . . 544 (2005) 481
Yu, S.S., see Debonnel, C.S. . . . 544 (2005) 342
Yu, S.S., see Eylon, S. . . . 544 (2005) 506
Yu, S.S., see Leitner, M.A. . . . 544 (2005) 315
Yu, S.S., see Roy, P.K. . . . 544 (2005) 225
Yu, S.S., see Roy, P.K. . . . 544 (2005) 520
Yu, S.S., see Sharp, W.M. . . . 544 (2005) 398
Yu, S.S., see Welch, D.R. . . . 544 (2005) 236
Yurchenko, S.S., see Danevich, F.A. . . . 544 (2005) 553

Zabrodina, E.A., see Aksenov, A.G. . . . 544 (2005) 412
Zaharakis, K.E., see Kaganovich, I.D. . . . 544 (2005) 91
Zaharakis, K.E., see Olson, R.E. . . . 544 (2005) 333
Zdesenko, Yu.G., see Danevich, F.A. . . . 544 (2005) 553
Zhou, J. and C. Chen, Parametric studies of image-charge effects on an intense beam in a small-aperture alternating-gradient focusing system . . . 544 (2005) 492
Zou, Y., see Cui, Y. . . . 544 (2005) 527
Zou, Y., see Haber, I. . . . 544 (2005) 441
Zou, Y., see Kishek, R.A. . . . 544 (2005) 179
Zou, Y., see Li, H. . . . 544 (2005) 367

Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Nuclear Instruments and Methods in Physics Research A 544 (2005) 707–712
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A
www.elsevier.com/locate/nima

Subject index

HIF 2004
Proceedings of the 15th International Symposium on Heavy Ion Inertial Fusion
Princeton, NJ, USA, June 7–11, 2004

Editors: Edward Lee, Arthur Molvik and Hong Qin

Section I. Opening Statements and Program Reviews

Overview of US heavy-ion fusion progress and plans, G. Logan, F. Bieniosek, C. Celata, E. Henestroza, J. Kwan, E.P. Lee, M. Leitner, L. Prost, P. Roy, P.A. Seidl, S. Eylon, J.-L. Vay, W. Waldron, S. Yu, J. Barnard, D. Callahan, R. Cohen, A. Friedman, D. Grote, M.K. Covo, W.R. Meier, A. Molvik, S. Lund, R. Davidson, P. Efthimion, E. Gilson, L. Grisham, I. Kaganovich, H. Qin, E. Startsev, D. Rose, D. Welch, C. Olson, R. Kishek, P. O'Shea and I. Haber 544 (2005) 1

Section II. Targets for Fusion Energy and High Energy Density Physics - Part I

Heavy-ion target physics and design in the USA, D.A. Callahan, D.S. Clark, A.E. Koniges, M. Tabak, G.R. Bennett, M.E. Cuneo, R.A. Vesey and A. Nikroo 544 (2005) 9

Studies of heavy ion-induced high-energy density states in matter at the GSI Darmstadt SIS-18 and future FAIR facility, N.A. Tahir, A. Adonin, C. Deutsch, V.E. Fortov, N. Grandjouan, B. Geil, V. Grayaznov, D.H.H. Hoffmann, M. Kulish, I.V. Lomonosov, V. Mintsev, P. Ni, D. Nikolaev, A.R. Piriz, N. Shilkin, P. Spiller, A. Shutov, M. Temporal, V. Ternovoi, S. Udrea and D. Varentsov 544 (2005) 16

Section II. Targets for Fusion Energy and High Energy Density Physics - Part II

Target design for the cylindrical compression of matter driven by heavy ion beams, A.R. Piriz, M. Temporal, J.J. López Cela, N. Grandjouan, N.A. Tahir, M.C. Serna Moreno, R.F. Portugues and D.H.H. Hoffmann 544 (2005) 27

Progress in heavy ion-driven target fabrication and injection, D.T. Goodin, A. Nobile, N.B. Alexander, R. Gallix, J.L. Maxwell, R.W. Petzoldt, W.S. Rickman and E.I. Valmianski 544 (2005) 34

Fabrication of capsules with angle-dependent gold shims for hohlraum drive symmetry correction, A. Nikroo, J. Pontelandolfo, A.L. Greenwood, J.L. Stillwell and D.A. Callahan 544 (2005) 42

Models of gain curves for fast ignition, M. Tabak and D. Callahan 544 (2005) 48

M.I-12: short pulse laser generated ion beams for fast ignition, M. Geissel, M. Roth, M. Allen, P. Audebert, M. Basko, A. Blažević, E. Brambrink, J. Cobble, T.E. Cowan, M.E. Cuneo, J.C. Fernández, J. Fuchs, J.-C. Gauthier, M. Hegelich and S. Karsch 544 (2005) 55

doi:10.1016/S0168-9002(05)01000-4

Simulations of electron transport for fast ignition using LSP, R.P.J. Town, C. Chen, L.A. Cottrill, M.H. Key, W.L. Kruer, A.B. Langdon, B.F. Lasinski, R.A. Snavely, C.H. Still, M. Tabak, D.R. Welch and S.C. Wilks 544 (2005) 61

A new twist for inertial fusion energy: Impact ignition, M. Murakami and H. Nagatomo 544 (2005) 67

Section III. Atomic Physics and Ion and Laser Interactions with Matter

Stopping of low-energy highly charged ions in dense plasmas, Y. Oguri, J. Hasegawa, J. Kaneko, M. Ogawa and K. Horioka 544 (2005) 76

Isochoric heating of DT fuels through PW-laser-produced proton beams, G. Maynard and M.D. Barriga-Carrasco 544 (2005) 84

Ionization cross-sections for ion–atom collisions in high-energy ion beams, I.D. Kaganovich, E.A. Startsev, R.C. Davidson, S.R. Kecskemeti, A. Bin-Nun, D. Mueller, L. Grisham, R.L. Watson, V. Horvat, K.E. Zaharakis and Y. Peng 544 (2005) 91

Section IV. Fusion Chamber

Final beam transport in HIF, S. Kawata, R. Sonobe, T. Someya and T. Kikuchi 544 (2005) 98

Recycling issues facing target and RTL materials of inertial fusion designs, L. El-Guebaly, P. Wilson, M. Sawan, D. Henderson and A. Varuttamaseni 544 (2005) 104

Vapor condensation study for HIF liquid chambers, P. Calderoni, A. Ying, T. Sketchley and M.A. Abdou 544 (2005) 111

Section V. Accelerators and Beam Physics - Part I

Accelerator plans at GSI for plasma physics applications, P. Spiller, K. Blasche, B. Franczak, M. Kirk, P. Hülsmann, C. Omet, S. Ratschow and J. Stadlmann 544 (2005) 117

Three-dimensional numerical studies of the temperature anisotropy instability in intense charged particle beams, E.A. Startsev, R.C. Davidson and H. Qin 544 (2005) 125

Ion source and injector experiments at the HIF/VNL, J.W. Kwan, D. Baca, E. Henestroza, J. Kapica, F.M. Bieniosek, W.L. Waldron, J.-L. Vay, S. Yu, G.A. Westenskow, D.P. Grote, E. Halaxa, I. Haber and L. Grisham 544 (2005) 134

Scientific issues in future induction linac accelerators for heavy-ion fusion, C.M. Celata 544 (2005) 142

Section V. Accelerators and Beam Physics - Part II

Experimental study of the transport limits of intense heavy ion beams in the HCX, L.R. Prost, F.M. Bieniosek, C.M. Celata, A. Faltens, P.A. Seidl, W.L. Waldron, R. Cohen, A. Friedman, M.K. Covo, S.M. Lund, A.W. Molvik and I. Haber 544 (2005) 151

Simulation of intense beams for Heavy Ion Fusion, A. Friedman 544 (2005) 160

Simulation of long-distance beam propagation in the Paul trap simulator experiment, E.P. Gilson, M. Chung, R.C. Davidson, P.C. Efthimion, R. Majeski and E.A. Startsev 544 (2005) 171

HIF research on the University of Maryland Electron Ring (UMER), R.A. Kishek, S. Bernal, Y. Cui, T.F. Godlove, I. Haber, J. Harris, Y. Huo, H. Li, P.G. O'Shea, B. Quinn, M. Reiser, M. Walter, M. Wilson and Y. Zou 544 (2005) 179

Solenoid transport for heavy ion fusion, E. Lee 544 (2005) 187

Section VI. Poster Session IA. Accelerators and Beam Physics - Part III

Experimental studies of electrons in a heavy-ion beam, A.W. Molvik, M.K. Covo, F.M. Bieniosek, R.H. Cohen, A. Faltens, A. Friedman, S.M. Lund, L. Prost and P.A. Seidl 544 (2005) 194

Dynamics of neutralizing electrons and the focusability of intense ion beams in HIF accelerating structures, A.F. Lifschitz, G. Maynard and J.-L. Vay. 544 (2005) 202

Simulating electron cloud effects in heavy-ion beams, R.H. Cohen, A. Friedman, S.M. Lund, A.W. Molvik, T. Azevedo, J.-L. Vay, P. Stoltz and S. Veitzer 544 (2005) 210

Experimental evaluation of a negative-ion source for a heavy-ion fusion negative-ion driver, L.R. Grisham, S.K. Hahto, S.T. Hahto, J.W. Kwan and K.N. Leung 544 (2005) 216

Neutralized transport experiment, P.K. Roy, S.S. Yu, S. Eylon, E. Henestroza, A. Anders, E.P. Gilson, F.M. Bieniosek, W.G. Greenway, B.G. Logan, W.L. Waldron, D.B. Shuman, D.L. Vanecek, D.R. Welch, D.V. Rose, C. Thoma, R.C. Davidson, P.C. Efthimion, I. Kaganovich, A.B. Sefkow and W.M. Sharp 544 (2005) 225

Simulations of neutralized final focus, D.R. Welch, D.V. Rose, T.C. Genoni, S.S. Yu and J.J. Barnard 544 (2005) 236

A final focus model for heavy-ion fusion driver system codes, J.J. Barnard, R.O. Bangerter, E. Henestroza, I.D. Kaganovich, B.G. Logan, W.R. Meier, D.V. Rose, P. Santhanam, W.M. Sharp, D.R. Welch and S.S. Yu 544 (2005) 243

Drift compression and final focus options for heavy ion fusion, H. Qin, R.C. Davidson, J.J. Barnard and E.P. Lee 544 (2005) 255

Beam dynamics and emittance growth during final beam bunching in HIF driver systems, T. Kikuchi, T. Someya, S. Kawata, M. Nakajima, K. Horioka and T. Katayama 544 (2005) 262

Diagnostics for intense heavy-ion beams in the HIF-VNL, F.M. Bieniosek, S. Eylon, A. Faltens, A. Friedman, J.W. Kwan, M.A. Leitner, A.W. Molvik, L. Prost, P.K. Roy, P.A. Seidl and G. Westenskow 544 (2005) 268

Ultra-low emittance, high current proton beams produced with a laser-virtual cathode sheath accelerator, T.E. Cowan, J. Fuchs, H. Ruhl, Y. Sentoku, A. Kemp, P. Audebert, M. Roth, R. Stephens, I. Barton, A. Blazevic, E. Brambrink, J. Cobble, J.C. Fernández, J.-C. Gauthier, M. Geissel, M. Hegelich, J. Kaae, S. Karsch, G.P. Le Sage, S. Letzring, M. Manclossi, S. Meyroneinc, A. Newkirk, H. Pépin and N. Renard-LeGalloudec 544 (2005) 277

Development of superconducting magnet systems for HIF experiments, G. Sabbi, L. Chiesa, A. Faltens, A. Lietzke, P. Seidl, S. Lund, N. Martovetsky, C. Gung, J. Minervini, J. Schultz, P. Hwang, C. Goodzeit, W. Hinson and R. Meinke 544 (2005) 285

Section VI. Poster Session IIA - System Studies and Alternates

Heavy ion fusion (HIF) driver point designs, S.S. Yu, R.P. Abbott, R.O. Bangerter, J.J. Barnard, R.J. Briggs, D. Callahan, C.M. Celata, R. Davidson, C.S. Debonnel, S. Eylon, A. Faltens, A. Friedman, D.P. Grote, P. Heitzenroeder, E. Henestroza, I. Kaganovich, J.W. Kwan, J.F. Latkowski, E.P. Lee, B.G. Logan, P.F. Peterson, D. Rose, P.K. Roy, G.-L. Sabbi, P.A. Seidl, W.M. Sharp and D.R. Welch 544 (2005) 294

Power plant conceptual design for fast ignition heavy-ion fusion, S. Medin, M. Basko, M. Churazov, P. Ivanov, D. Koshkarev, Yu. Orlov, A. Parshikov, B. Sharkov and V. Suslin 544 (2005) 300

Systems analysis for modular vs. multi-beam HIF drivers, W.R. Meier and B.G. Logan. 544 (2005) 310

Options for integrated beam experiments for inertial fusion energy and high-energy density physics research, M.A. Leitner, C.M. Celata, E.P. Lee, B.G. Logan, W.L. Waldron, S.S. Yu and J.J. Barnard. 544 (2005) 315

Poster Session IB

Nonlinear Rayleigh–Taylor growth in converging geometry, D.S. Clark and M. Tabak 544 (2005) 324

Fast-ignition heavy-ion fusion target by jet impact, P. Velarde, F. Ogando, S. Eliezer and J.M. Martinez-Val 544 (2005) 329

Electron stripping cross-sections for fast, low charge state uranium ions, R.E. Olson, R.L. Watson, V. Horvat, K.E. Zaharakis, R.D. DuBois and T. Stöhlker 544 (2005) 333

Three-dimensional modeling of slab liquid jets used for heavy-ion fusion for beam line protection, A.I. Konkachbaev, N.B. Morley and M.A. Abdou 544 (2005) 337

Progress towards thick liquid fusion chambers for assisted-pinch and solenoid focusings, C.S. Debonnel, S.S. Yu and P.F. Peterson 544 (2005) 342

Application of adaptive mesh refinement to PIC simulations in heavy ion fusion, J.-L. Vay, A. Friedman and D.P. Grote 544 (2005) 347

The electromagnetic Darwin model for intense charged particle beams, W.W.-l. Lee, R.C. Davidson, E.A. Startsev and H. Qin 544 (2005) 353

Simulation of integrated beam experiment designs, D.P. Grote and W.M. Sharp 544 (2005) 360

Beam control and matching for the transport of intense beams, H. Li, S. Bernal, T. Godlove, Y. Huo, R.A. Kishek, I. Haber, B. Quinn, M. Walter, Y. Zou, M. Reiser and P.G. O'Shea 544 (2005) 367

Experimental tests of the injection Y on the University of Maryland Electron Ring, M. Walter, B. Quinn, D. Lamb, S. Bernal, T. Godlove, I. Haber, M. Holloway, R.A. Kishek, H. Li, P.G. O'Shea and M. Reiser ... 544 (2005) 374

Development of a 1-m plasma source for heavy ion beam charge neutralization, P.C. Efthimion, E.P. Gilson, L. Grisham, R.C. Davidson, S. Yu, W. Waldron and B. Grant Logan 544 (2005) 378

Ion beam pulse neutralization by a background plasma in a solenoidal magnetic field, I.D. Kaganovich, E.A. Startsev, R.C. Davidson and D. Welch 544 (2005) 383

Two-stream stability assessment of intense heavy ion beams propagating in a plasma immersed in an axial magnetic field, D.V. Rose, T.C. Genoni, D.R. Welch and E.P. Lee 544 (2005) 389

Bunch compression in a ring for future RIKEN projects, T. Kikuchi, S.M. Lund, T. Katayama and S. Kawata 544 (2005) 393

Simulation of drift compression for heavy-ion fusion, W.M. Sharp, J.J. Barnard, D.P. Grote, C.M. Celata and S.S. Yu 544 (2005) 398

Poster Session IIB

HIB illumination on a target in HIF, T. Someya, S. Kawata, T. Kikuchi and A.I. Ogoyski 544 (2005) 406

Cylindrical targets for heavy ions fusion, A.G. Aksenov, M.D. Churazov, A.A. Golubev, D.G. Koshkarev and E.A. Zabrodina 544 (2005) 412

Progress in the polarization of HD, S. Bouchigny, C. Commeaux, J.-P. Didelez and G. Rouillé 544 (2005) 417

2D model of a concentrated shell with magnetic field, S.A. Kholin, V.I. Nechpai, L.F. Potapkina and S.G. Smirnov 544 (2005) 421

Transverse beam temperature effects on mixed Two-Stream/Filamentation unstable modes, A. Bret, M.-C. Firpo and C. Deutsch 544 (2005) 427

Production of a high brightness beam from a large surface source, J.W. Kwan, F.M. Bieniosek, W.L. Waldron, J.-L. Vay, G.A. Westenskow, E. Halaxa and I. Haber 544 (2005) 430

RF Plasma source for a Heavy Ion Fusion injector, G.A. Westenskow, D.P. Grote, E. Halaxa, J.W. Kwan and W.L. Waldron. 544 (2005) 436

Measurement and simulation of the UMER beam in the source region, I. Haber, S. Bernal, R.A. Kishek, P.G. O'Shea, B. Quinn, M. Reiser, Y. Zou, A. Friedman, D.P. Grote and J.-L. Vay 544 (2005) 441

Low-energy beam transport using space-charge lenses, O. Meusel, A. Bechtold, J. Pozimski, U. Ratzinger, A. Schempp and H. Klein. 544 (2005) 447

Non-conventional approach to beam dynamics in heavy-ion accelerators: A test on the HIDIF parameters, M. Pusterla 544 (2005) 454

Chaotic particle trajectories in high-intensity finite-length charge bunches, S.R. Hudson, H. Qin and R.C. Davidson 544 (2005) 458

Th.P-19. Collisional effects and dynamic aperture in high-intensity storage rings, C. Benedetti, S. Rambaldi and G. Turchetti 544 (2005) 465

Simulations of beam emittance growth from the collective relaxation of space-charge nonuniformities, S.M. Lund, D.P. Grote and R.C. Davidson. 544 (2005) 472

Experimental study of space–charge waves in heavy ion beams, F.M. Bieniosek, A. Faltens, L. Prost, P.K. Roy, P.A. Seidl, S. Eylon, E. Henestroza, W.L. Waldron and S.S. Yu 544 (2005) 481

Magnetic field measurements of quadrupoles in the High-Current Experiment, P.A. Seidl, M.K. Covo, D. Baca, A. Faltens, A.W. Molvik, G. Ritchie, G. Sabbi and D. Shuman 544 (2005) 486

Parametric studies of image-charge effects on an intense beam in a small-aperture alternating-gradient focusing system, J. Zhou and C. Chen 544 (2005) 492

Scaling laws for electron loss from ion beams, R.D. DuBois, A.C.F. Santos and R.E. Olson 544 (2005) 497

Energy loss, range, and electron yield comparisons of the CRANGE ion–material interaction code, P.H. Stoltz, S.A. Veitzer, R.H. Cohen, A.W. Molvik and J.-L. Vay. 544 (2005) 502

Electron effects in the Neutralized Transport Experiment (NTX), S. Eylon, E. Henestroza, P.K. Roy and S.S. Yu 544 (2005) 506

Laser-Induced Fluorescence diagnostic of barium ion plasmas in the Paul Trap Simulator Experiment, M. Chung, E.P. Gilson, R.C. Davidson, P.C. Efthimion, R. Majeski and E.A. Startsev 544 (2005) 514

Study of a non-intercepting ion beam diagnostic for beam density profile, P.K. Roy, S.S. Yu, S. Eylon, E. Henestroza, J. Ludvig, D.B. Shuman, W.G. Greenway, D.L. Vanecek, W.L. Waldron, R. Hannink and F.M. Bieniosek 544 (2005) 520

Coherent error study in a retarding field energy analyzer, Y. Cui, Y. Zou, M. Reiser, R.A. Kishek, I. Haber, S. Bernal and P.G. O'Shea. 544 (2005) 527

Space-charge neutralization of heavy ion beams via electron injection TH.P-31, L. Wu, G.H. Miley and H. Momota 544 (2005) 533

High Energy Physics Detectors

$ZnWO_4$ crystals as detectors for 2β decay and dark matter experiments, F.A. Danevich, V.V. Kobychev, S.S. Nagorny, D.V. Poda, V.I. Tretyak, S.S. Yurchenko and Yu.G. Zdesenko 544 (2005) 553

EMMA: A recoil mass spectrometer for ISAC-II at TRIUMF, B. Davids and C.N. Davids 544 (2005) 565

Nuclear Spectroscopy

Monte Carlo calculations of coincidence-summing corrections for volume sources in gamma-ray spectrometry with Ge detectors, E. García-Toraño, M. Pozuelo and F. Salvat 544 (2005) 577

Standardisation of ^{125}I using seven techniques for radioactivity measurement, S. Pommé, T. Altzitzoglou, R. Van Ammel and G. Sibbens 544 (2005) 584

Gamma, X-ray and Charged Particle Detectors

Bench tests with La-doped $PbWO_4$ crystals, N. Gendner, U. Holm, K.F. Johnson, A. Meyer-Larsen, M. Moritz and S. Thies 544 (2005) 593

Epitaxy — a new technology for fabrication of advanced silicon radiation detectors, J. Kemmer, F. Wiest, A. Pahlke, O. Boslau, P. Goldstrass, T. Eggert, M. Schindler and I. Eisele 544 (2005) 612

Neutron Physics and Detectors

The development of the BRISP spectrometer at the Institut Laue-Langevin, D. Aisa, E. Babucci, F. Barocchi, A. Cunsolo, F. D'Anca, A. De Francesco, F. Formisano, T. Gahl, E. Guarini, S. Jahn, A. Laloni, H. Mutka, A. Orecchini, C. Petrillo, F. Sacchetti, J.-B. Suck and G. Venturi. 544 (2005) 620

Design of a portable directional neutron source finder, H. Yamanishi 544 (2005) 643

A new gradient monochromator for the IN13 back-scattering spectrometer, L. Ciampolini, L.E. Bove, C. Mondelli, L. Alianelli, S. Labbe-Lavigne, F. Natali, M. Bée and A. Deriu 544 (2005) 649

Numerical and Data Analysis

Minimizing the statistical error in capture cross-section measurements, Y. Danon and R.C. Block 544 (2005) 659

A study of the real-time deconvolution of digitized waveforms with pulse pile up for digital radiation spectroscopy, W. Guo, R.P. Gardner and C.W. Mayo 544 (2005) 668

THOMATE: A new protocol to compare simulated data and experiment by minimizing a χ^2, T. Materna 544 (2005) 679

Synchrotron Radiation Research and Detectors

A fine adjustment mechanism of the second crystal in a double-crystal monochromator with a 3-PS parallel manipulator, C. Cao, X. Gao, P. Ma, H. Yu, F. Wang, Y. Huang and P. Liu 544 (2005) 684